

Worksheet: Vector Algebra

NIOS · Class 12 · Mathematics · 3 questions · 12 marks

Name: _____

Date: _____

Score: _____ / 12

Q1. Find the angle between $a = 2\hat{i} - 5\hat{j} + k$ and $b = \hat{i} + 52k$. [3 marks]

Q2. Find the area of a triangle with vertices A(1, 2, 3), B(2, 1, 4), C(4, 5, 1). [4 marks]

Q3. Show that vectors $a = \hat{i} - 2\hat{j} + 3k$, $b = 2\hat{i} + 354k$, $c = \hat{i} - 35\hat{j} + 5k$ are coplanar. [5 marks]
